

# Need for skilled workers in the area of Data Science and Cloud Computing in Styria

Raphaela Raab  
FH JOANNEUM – University of  
Applied Science,  
Data Science and Artificial  
Intelligence  
8020 Graz, Austria  
raphaela.raab2@fh-joaanneum.at

Wolfgang Granigg  
FH JOANNEUM – University of  
Applied Science,  
Data Science and Artificial  
Intelligence  
8020 Graz, Austria  
wolfgang.granigg@fh-joaanneum.at

Michael Melcher  
FH JOANNEUM – University of  
Applied Science,  
Data Science and Artificial  
Intelligence  
8020 Graz, Austria  
michael.melcher@fh-joaanneum.at

## ABSTRACT

The aim of this paper is to discuss the results of a survey conducted to assess the need for skilled workers in the areas Data Science & Cloud Computing in Styria, Austria. Firstly, the relevant roles and skills in the abovementioned areas had to be selected. Initially, this selection process is described. Consequently, a survey was designed and given to a representative group of companies. The survey includes questions regarding the need for skilled workers with respect to the domains and the selected skills in the areas Data Science & Cloud Computing. Moreover, the respondents were asked about the importance of further education and the necessity of academic education in these areas. Overall, our survey concludes that the requirements for skilled workers in the areas of Data Science and Cloud Computing in Styria will increase significantly in the coming years.

## CCS CONCEPTS

• Social and professional topics → Industry statistics; Employment issues; Computing occupations; Adult education.

## KEYWORDS

data science, cloud computing, personnel requirement, Styria, cloud platform expertise, data management, machine learning, artificial intelligence, statistical analysis, data driven innovation, business intelligence

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## 1 INTRODUCTION

The handling and usage of Big Data belongs to the most important competencies of the Industry 4.0 [6, p.49]. Although not everyone

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will agree on the famous statement that the Data Scientist is “[t]he Sexiest Job of the 21<sup>st</sup> Century” [2, p.76], it is undisputed that Data Science and Cloud Computing are very important and central future topics for science, business and society. Knowledge and skills in these areas and in the related subject areas such as Artificial Intelligence, Machine Learning, Statistics, Optimization, etc. have now become an increasingly important competitive factor – worldwide and of course also in Styria.

The cooperative Styrian research project IDE@S focuses, among other topics, on the current and future need for workers in these areas. Based on surveys, expert discussions and statistical projections, the need for skilled workers in the areas of Data Science & Cloud Computing in 2021 was investigated and compared to an outlook of the situation in 2028.

This paper presents the relevant results in a condensed form and tries to draw logical conclusions and implications based on the presented results.

## 2 THE IDE@S RESEARCH PROJECT

IDE@S – an acronym for Innovative Data Environment @ Styria – is a cooperative research project between four Styrian universities (TU Graz, Karl-Franzens University Graz, Medical University Graz and FH JOANNEUM), funded by the government of the Austrian Federal State of Styria, with the goal of creating a Styrian model for the collaborative use of Big Data. In cooperation with the so-called Styrian clusters<sup>2</sup> and stakeholders from the industry sector, the collaboration between industry and universities in the field of data science is to be further improved, and thus the visibility of Styria in the areas of higher education and industry is to be strengthened at the European level. The project is divided into eight work packages (AP0 to AP7). As part of work package AP2, one of the discussed topics is how large the need for skilled workers in the areas of data science and cloud computing was in 2021 and how it will change until 2028. The respective results are presented in this paper.

## 3 SURVEY DEVELOPMENT

One important goal in IDE@S was to assess Styrian companies’ need for skilled workers in the areas of Data Science & Cloud Computing based on a representative survey. For this, an appropriate selection of job titles and the respective relevant skills in the areas of Data Science and Cloud Computing had to be determined first –

<sup>2</sup>The clusters in Styria represent networking and support organizations for close cooperation between business and science as well as between companies. These clusters are generally focused on specific sectors or industries.

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